

Automatic Glycohemoglobin Analyzer

ADAMS A1c

HA-8180V



Measurement Speed : Fast mode
measurement in 48 seconds and
variant mode in 90 seconds

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Measurement Speed

The HA-8180V incorporates unique HPLC column technology.

Variant Mode

Time until first report is just 3.5 minutes. For subsequent samples, measurement takes just 90 seconds.

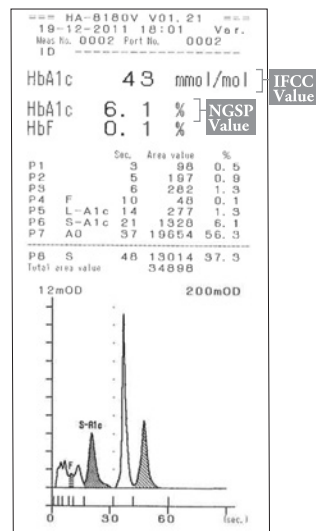
Fast Mode

Time until first report is just 1.9 minutes. For subsequent samples, measurement takes just 48 seconds.

Easy-to-switch

Switching between Variant mode and Fast mode is performed via the operator panel on the analyzer, making things simpler for the user.

The same reagents and column are used for both Variant and Fast modes.



Measurement Accuracy

The measurements are the result of the HPLC measurement principle.

The measurement result includes information of each peak and chromatogram.

The result will be shown in both IFCC and NGSP units.

※In addition to measuring HbA1c and HbF, HA-8180V can separate HbS and HbC, detect HbE and HbD in Variant mode



Easy-to-follow user interface: Save time, avoid errors.

A large-size color LCD displays actual result, shows analyzer status, comments to operation procedure or informs the user about the remaining reagent volume.



Sample-stirring function

The automatic sample-stirring function before measurement prevents fluctuation in measurement results caused by blood cell sedimentation.



Easy-to-maintain

No special tools are required for daily maintenance. Exchanged parts are hand-tightened, minimizing the workload of the user. The pre-filter is already integrated with the column eliminating the hassle of exchanging it. Replacement of the filter is not required throughout the column life.



Cap-piercing method

The HA-8180V uses a cap-piercing method which enables the setting of capped blood collection tubes in sample racks.

The accurate and direct aspiration of blood samples not only reduces workload but also helps to protect lab technicians from infection.

Specifications	
Configuration	Main body, sampler (with sample tube spinning unit) and accessories
Measurement objects	Whole blood or hemolysis sample
Column	COLUMN UNIT 80
Reagents	ELUENT 80A, ELUENT 80B, ELUENT 80CV and HEMOLYSIS WASHING SOLUTION 80H
Measurement items	Fast Mode HbA1c (Stable HbA1c, S-A1c) and HbF Variant Mode HbA1c (Stable HbA1c, S-A1c) and HbF (HbS and HbC separation and HbE and HbD detection can be performed)
Measurement ranges *1	HbA1C : 3 - 20 %, 9 - 195 mmol/mol HbF : 0 - 100 %
Guaranteed measurement ranges *2	HbA1C : 4 - 16 %, 20 - 151 mmol/mol HbF : 0.3 - 5 %
Measurement principle	Reversed-phase cation exchange chromatography
Measurement wavelength	420 nm / 500 nm (Dual-wavelength colorimetry)
Sample supply	Sampler
Resolution	0.1 % Ratio, 1 mmol/mol
Processing speed	Variant mode : 90 seconds/test Fast mode : 48 seconds/test
Sample consumption	Approximately 14 μ L (Whole blood)
Required sample volume	Sample tube : Minimum 10 mm away from the bottom Sample cup : 400 μ L or more
Sample container	Sample tube : (12.3 / 15 mm diameter) x (75 to 100 mm length) Sample cup : 500 μ L
Compatible rack type	ARKRAY racks
Number of measurement samples	One-way transportation (factory-set) : Maximum 50 samples Loop transportation : Maximum 100 samples
Column temperature	Approximately 40 °C
Warm-up time	Maximum 30 minutes
Display	Large color LCD with backlight
Printer	For use with 58-mm width thermal printer paper
Memory capacity	900 measurement results (including calibration results)
External output	Serial 1 port (Can be optionally used as an Ethernet port.)
Communication system	RS-232C compliant (Switchable between one-way and two-way communications.)
Transmission speed	RS-232C : Selectable from 300, 600, 1200, 2400, 4800, 9600 and 19200 bps Ethernet : 10BASE-T
Dimensions	530 (W) x 530 (D) x 530 (H) mm (Not including the hemolysis washing solution bottle)
Weight	Main body : Approximately 39 kg, Sampler: Approximately 4 kg
Power requirements	100 - 240 V AC $\pm$ 10 %, 50 / 60 Hz
Power input	Maximum 300 VA

*1 Error-free measurement ranges

*2 Guaranteed ranges for obtaining results equivalent to those from HA-8160 VP mode measurement

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*Designs and specifications may be changed without prior notice.

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